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FIGURE 1A

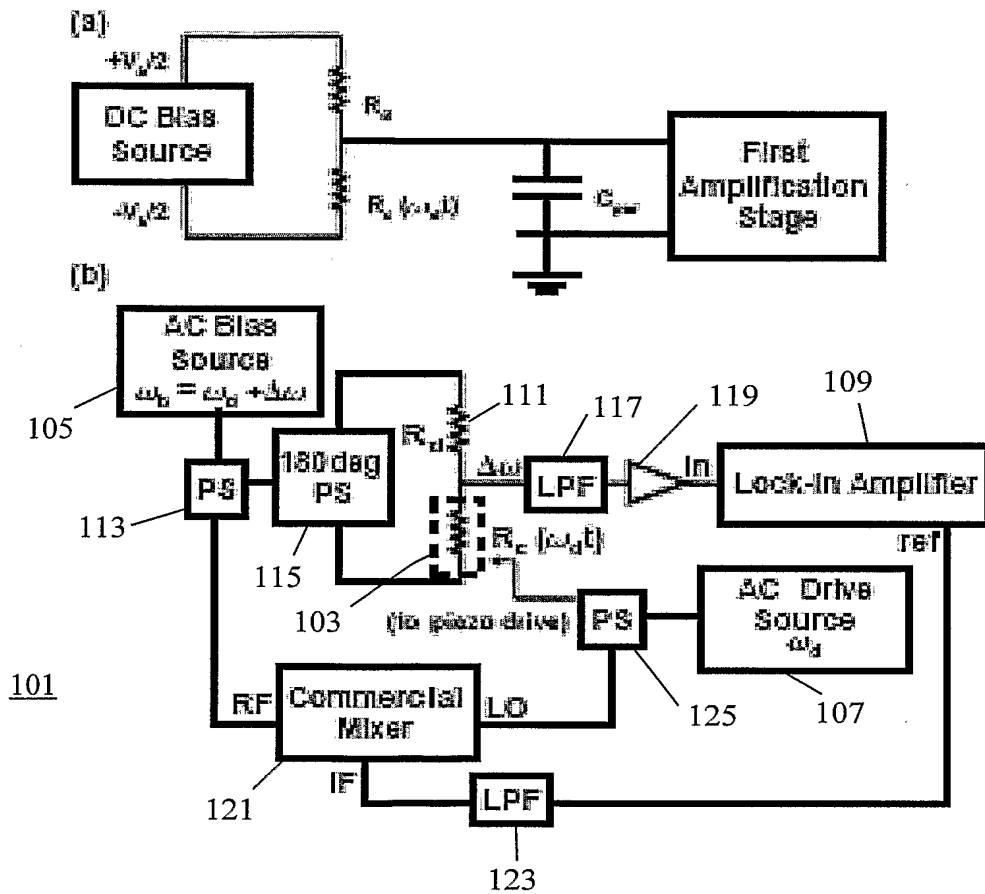
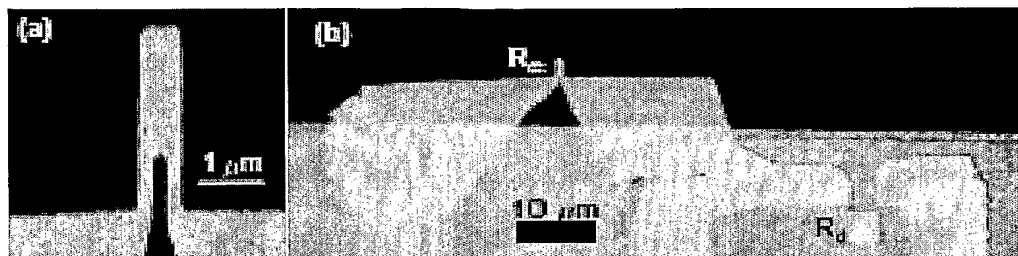


FIGURE 1B

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FIGURE 2A

FIGURE 2B



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FIGURE 3A

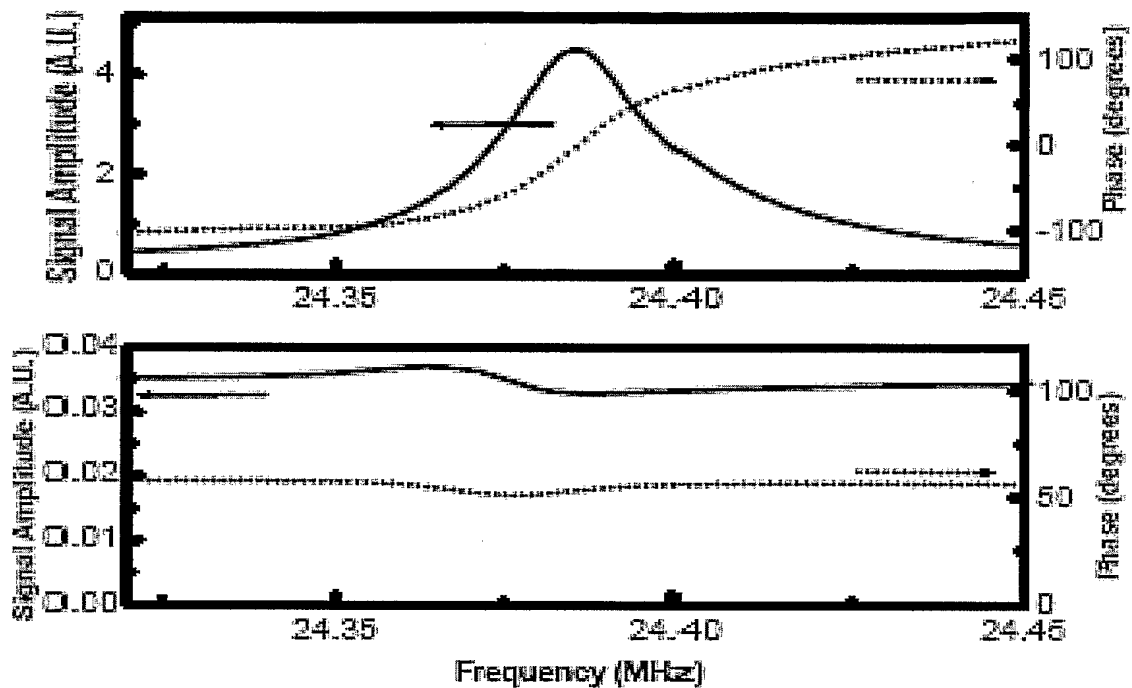
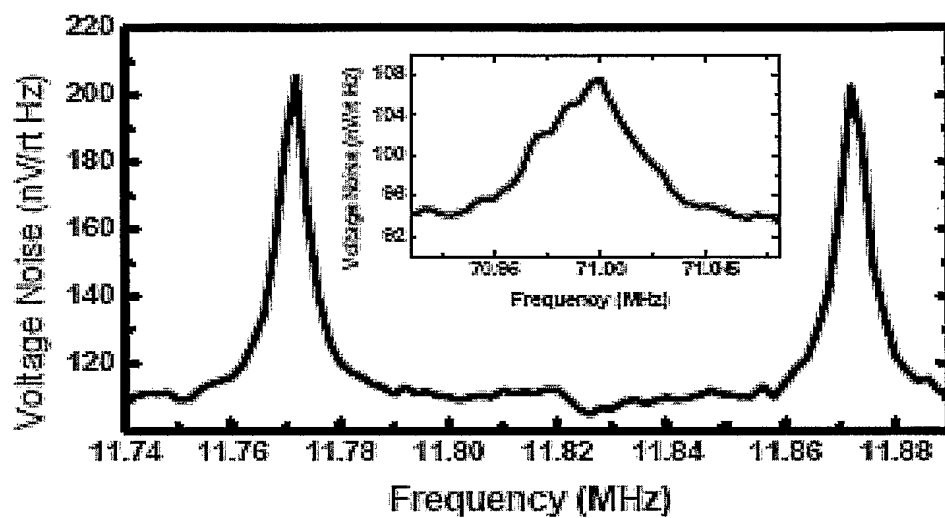


FIGURE 3B

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FIGURE 4



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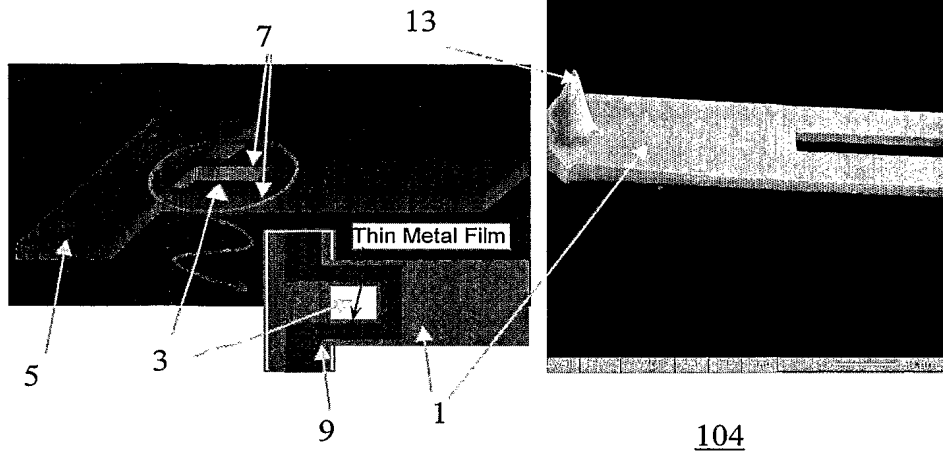


FIGURE 5a

FIGURE 5b

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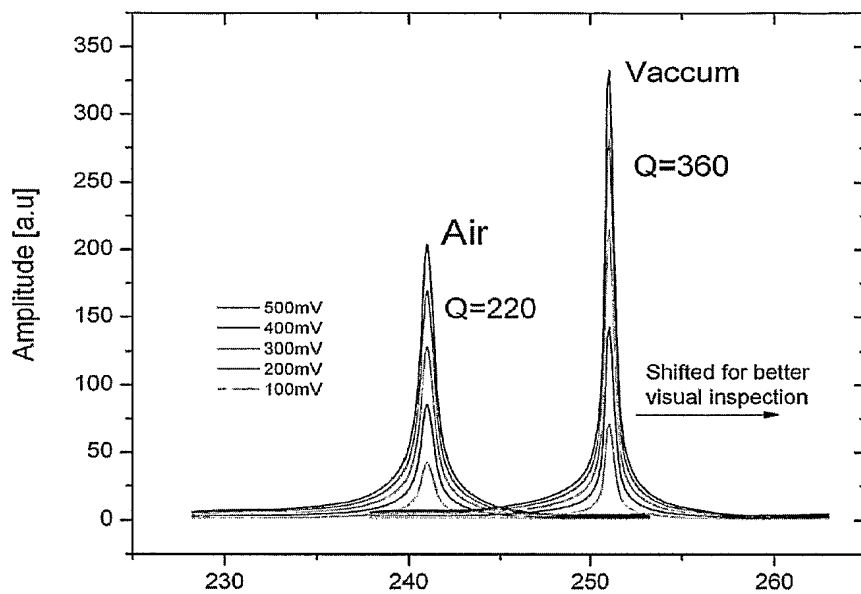


FIGURE 6

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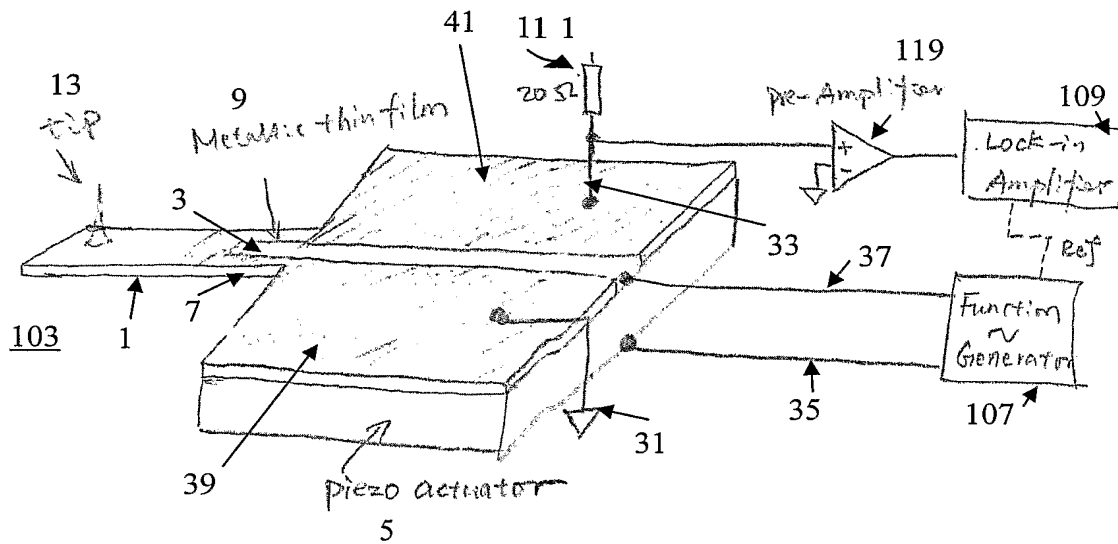


FIGURE 7A

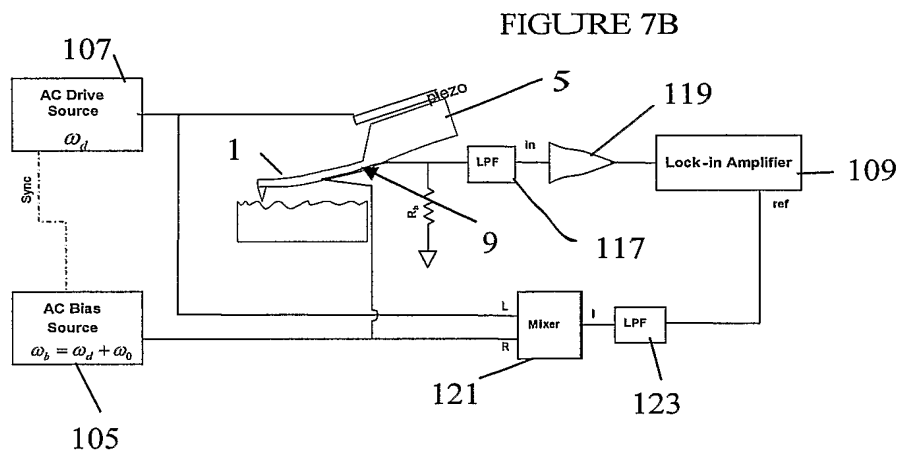


FIGURE 7B

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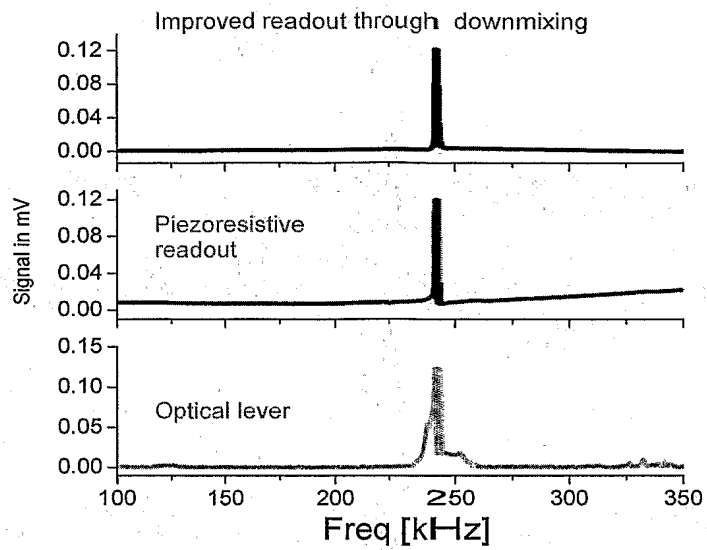


FIGURE 8



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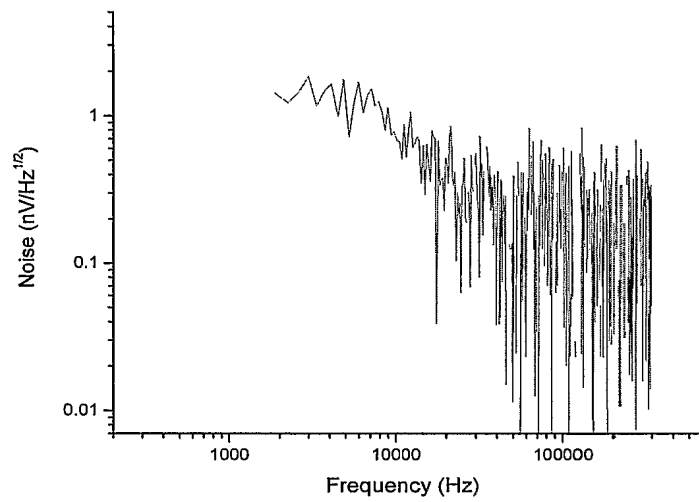


FIGURE 9

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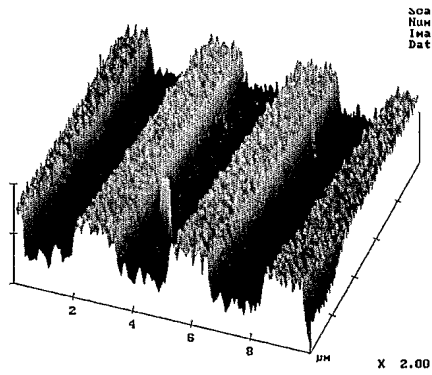


FIGURE 10A

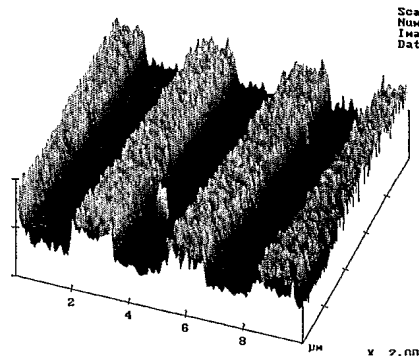


FIGURE 10B

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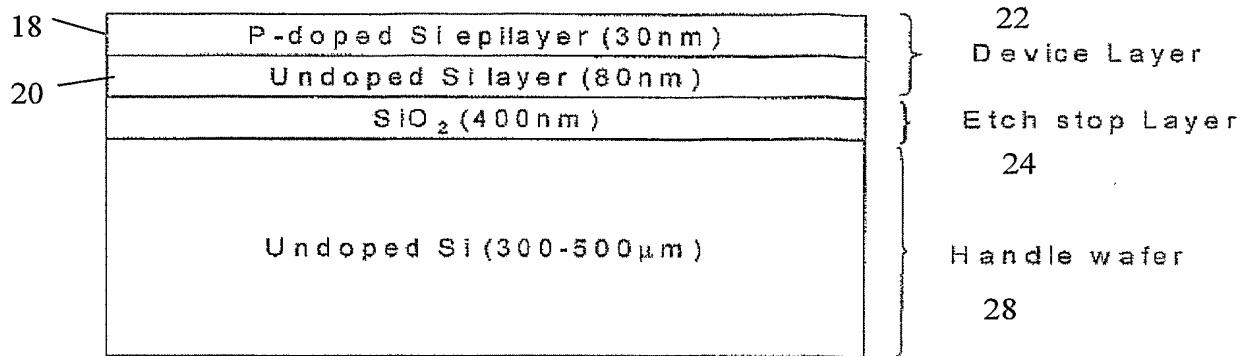


FIGURE 11

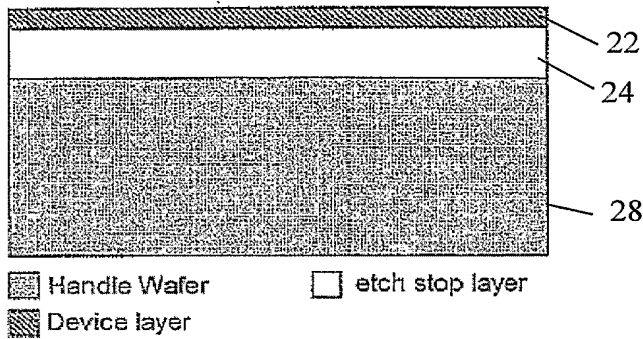


FIGURE 12A

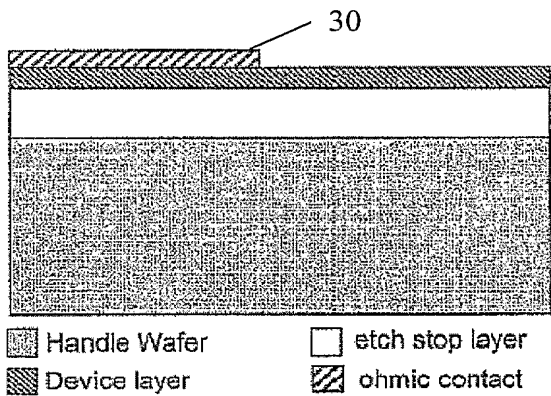


FIGURE 12B

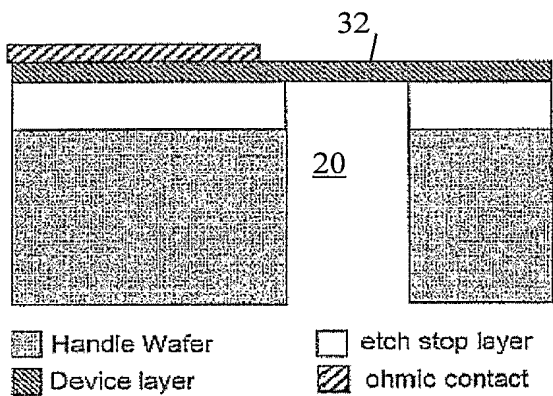


FIGURE 12C

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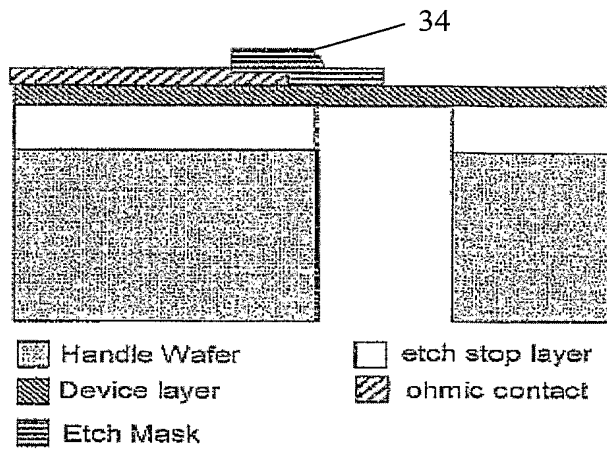


FIGURE 12D

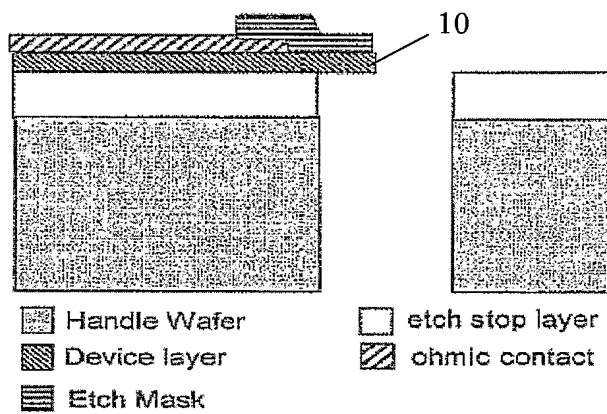


FIGURE 12E

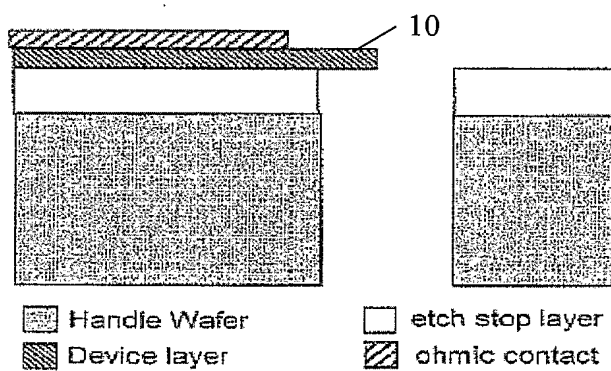


FIGURE 12F

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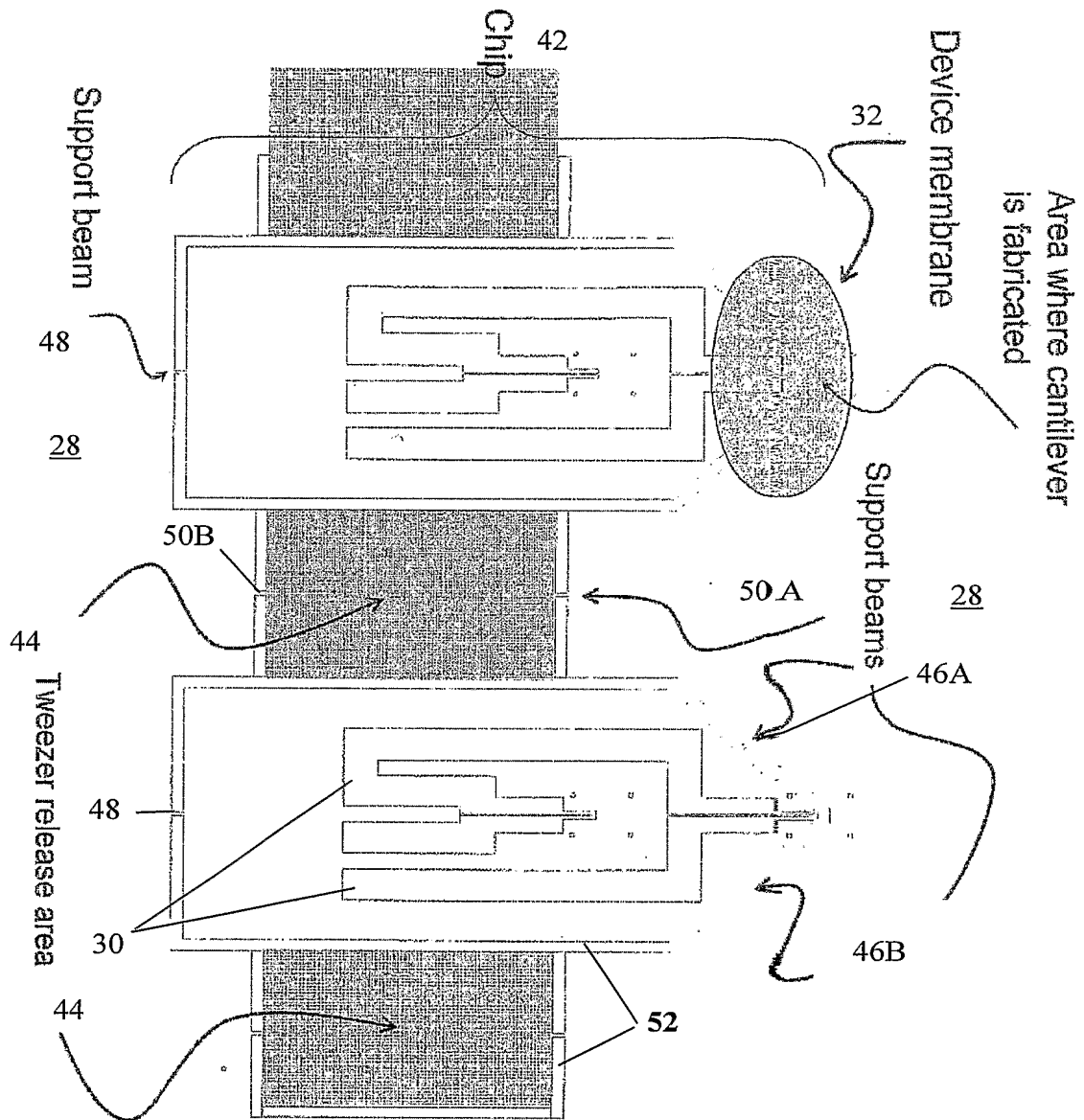


FIGURE 13

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Top View: Fabricated cantilever in membrane

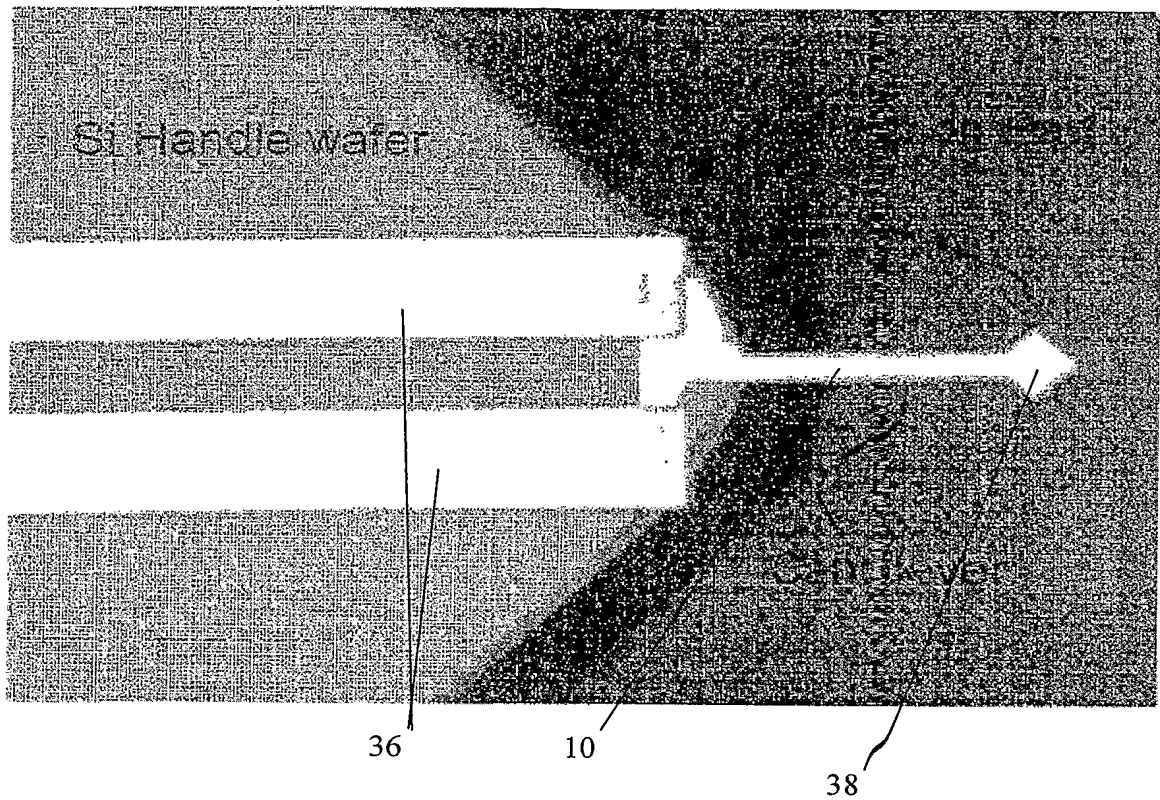
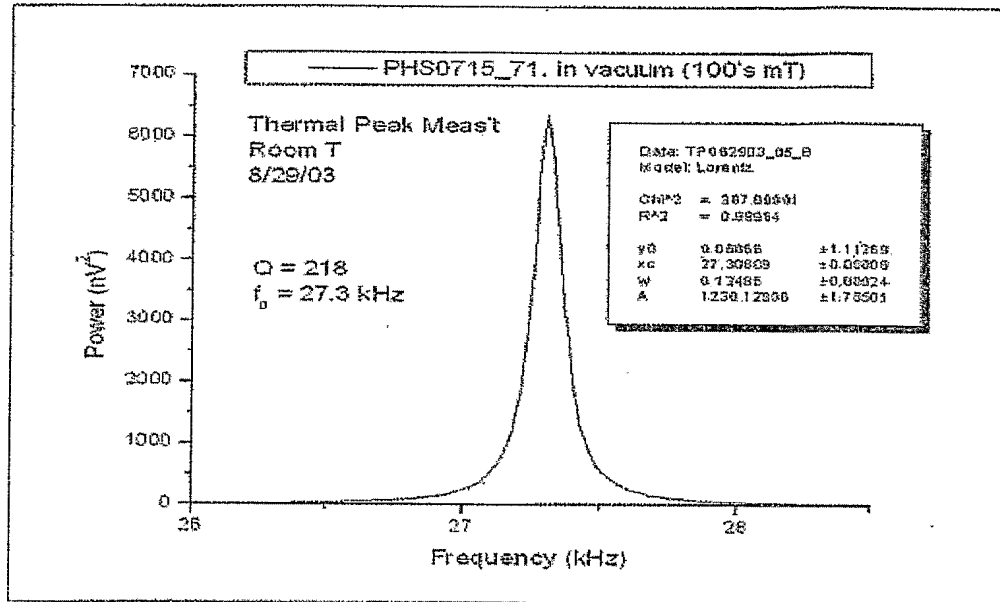


FIGURE 14

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FIGURE 15

## Thermally driven cantilever (optical transduction)



## Thermally driven cantilever (piezoresistive transduction)

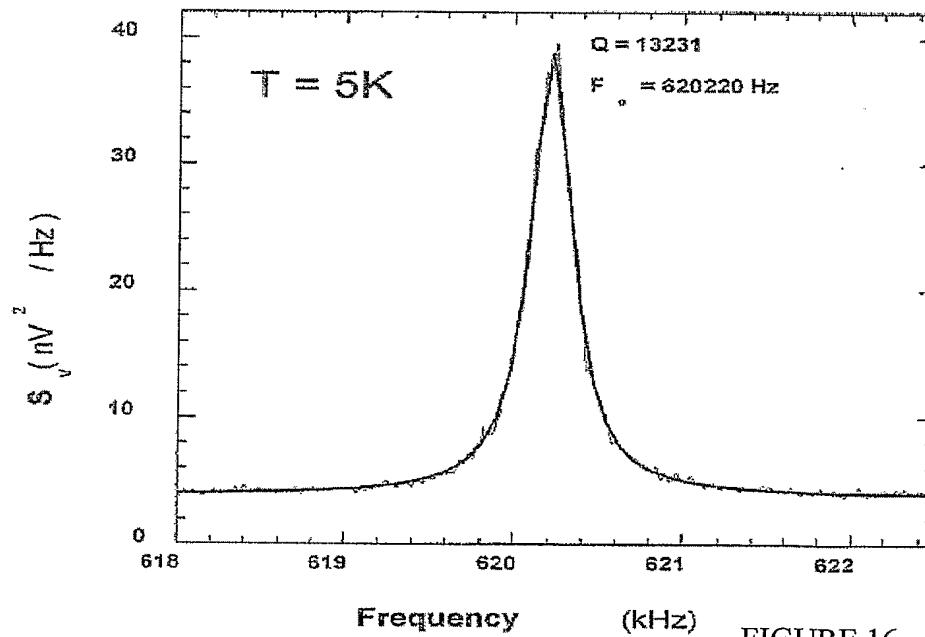


FIGURE 16